

IN THE CLAIMS

Please cancel pending claims 10-67 and add new claims 68-119 as follows:

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68. (New) An isolated polynucleotide comprising a coding strand encoding a polypeptide comprising a sequence of at least 12 consecutive residues of SEQ ID NO:2.

69. (New) An isolated polynucleotide according to claim 68, wherein the sequence comprises at least 32 consecutive residues of SEQ ID NO:2.

70. (New) An isolated polynucleotide according to claim 68, wherein the sequence comprises at least 64 consecutive residues of SEQ ID NO:2.

71. (New) An isolated polynucleotide according to claim 68, wherein the sequence is selected from the group consisting of residues 30-46, 56-152, 153-251, 252-344, 345-440, 441-535, 536-635, 636-753, 754-854, 915-938, 1037-1046, 1098-1119, 1262-1269 of SEQ ID NO:2.
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72. (New) An isolated polynucleotide according to claim 68, wherein the sequence is SEQ ID NO:2.

73. (New) A cell comprising a polynucleotide according to claim 68.

74. (New) A method for making a Robo polypeptide, comprising the steps of: incubating a host cell or cellular extract containing a polynucleotide according to claim 68 under conditions whereby the polypeptide is expressed and recovering the polypeptide.

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75. (New) An isolated polynucleotide comprising at least 24 consecutive nucleotides of SEQ ID NO:1.

76. (New) An isolated polynucleotide according to claim 75, comprising at least 36 consecutive

nucleotides of SEQ ID NO:1.

77. (New) An isolated polynucleotide according to claim 75, comprising at least 96 consecutive nucleotides of SEQ ID NO:1.

78. (New) An isolated polynucleotide according to claim 75, comprising SEQ ID NO:1.

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79. (New) An isolated polynucleotide comprising a coding strand encoding a polypeptide comprising a sequence of at least 12 consecutive residues of SEQ ID NO:4.

80. (New) An isolated polynucleotide according to claim 79, wherein the sequence comprises residues 4-99, 100-192, 193-296, 297-396, 397-494, 495-595, 596-770, 771-877, 906-929, and 1075-1084 of SEQ ID NO:4.

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81. (New) An isolated polynucleotide according to claim 79, wherein the sequence comprises residues 1-942 of SEQ ID NO:4.

82. (New) An isolated polynucleotide according to claim 79, wherein the sequence comprises SEQ ID NO:4.

83. (New) A cell comprising a polynucleotide according to claim 79.

84. (New) A method for making a Robo polypeptide, comprising the steps of: incubating a host cell or cellular extract containing a polynucleotide according to claim 79 under conditions whereby the polypeptide is expressed and recovering the polypeptide.

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85. (New) An isolated polynucleotide comprising at least 36 consecutive nucleotides of SEQ ID NO:3.

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86. (New) An isolated polynucleotide according to claim 85, comprising at least 96 consecutive nucleotides of SEQ ID NO:3.

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87. (New) An isolated polynucleotide according to claim 85, comprising SEQ ID NO:3.

~~88. (New) An isolated polynucleotide comprising a coding strand encoding a polypeptide comprising a sequence of at least 12 consecutive residues of SEQ ID NO:6.~~

VIIe

89. (New) An isolated polynucleotide according to claim 88, wherein the sequence comprises at least 32 consecutive residues of SEQ ID NO: 6.

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90. (New) An isolated polynucleotide according to claim 88, wherein the sequence comprises at least 64 consecutive residues of SEQ ID NO: 6.

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91. (New) An isolated polynucleotide according to claim 88, wherein the sequence is selected from the group consisting of residues 30-129, 130-223, 224-315, 316-453, 454-543, 544-643, 644-766, 767-865, 900-922, 1036-1045, 1153-1163, and 1065-1074 of SEQ ID NO:6. ✓

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92. (New) An isolated polynucleotide according to claim 88, wherein the sequence is residues 1-937 of SEQ ID NO:6.

93. (New) An isolated polynucleotide according to claim 88, wherein the sequence is SEQ ID NO:6.

94. (New) A cell comprising a polynucleotide according to claim 88.

95. (New) A method for making a Robo polypeptide, comprising the steps of: incubating a host cell or cellular extract containing a polynucleotide according to claim 88 under conditions whereby the polypeptide is expressed and recovering the polypeptide.

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96. (New) An isolated polynucleotide comprising at least 24 consecutive nucleotides of SEQ ID NO:5.

97. (New) An isolated polynucleotide according to claim 96, comprising at least 36 consecutive nucleotides of SEQ ID NO:5.

98. (New) An isolated polynucleotide according to claim 96, comprising at least 96 consecutive nucleotides of SEQ ID NO:5.

99. (New) An isolated polynucleotide according to claim 96, comprising SEQ ID NO:5.

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100. (New) An isolated polynucleotide comprising a coding strand encoding a polypeptide comprising a sequence selected from the group consisting of residues 1-12, 18-28, 31-40, 45-65, 106-116, 137-145, 214-230, 274-286, 314-324, 399-412, 496-507, 548-565, 599-611, 660-671, 717-730, 780-791, 835-847, 877-891, 930-942, 981-998, 1040-1051, 1080-1090, 1154-1168, 1215-1231, and 1278-1302 of SEQ ID NO:8, or the group consisting of residues 6-21, 68-167, 168-258, 259-350, 351-450, 451-546, 547-644, 645-761, 762-862, 896-917, 1070-1079 and 1081-1095 of SEQ ID NO:8.

101. (New) An isolated polynucleotide according to claim 100, wherein the sequence is selected from the group consisting of residues 1-12, 18-28, 31-40, 45-65, 106-116, 137-145, 214-230, 274-286, 314-324, 399-412, 496-507, 548-565, 599-611, 660-671, 717-730, 780-791, 835-847, 877-891, 930-942, 981-998, 1040-1051, 1080-1090, 1154-1168, 1215-1231, and 1278-1302 of SEQ ID NO:8.

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102. (New) An isolated polynucleotide according to claim 100, wherein the sequence is selected from the group consisting of residues 6-21, 68-167, 168-258, 259-350, 351-450, 451-546, 547-644, 645-761, 762-862, 896-917, 1070-1079, and 1081-1095 of SEQ ID NO:8.

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103. (New) An isolated polynucleotide according to claim 100, wherein the sequence is selected from the group consisting of residues 1-67, 68-167, 168-259, 260-350 and 351-451 of SEQ ID NO:8.

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104. (New) An isolated polynucleotide according to claim 100, wherein the sequence is selected from the group consisting of residues 1-167, 68-259, 1-67 joined to 168-259; and 1-67 joined to 260-451 of SEQ ID NO:8.

105. (New) An isolated polynucleotide according to claim 100, wherein the sequence comprises SEQ ID NO:8.

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106. (New) A cell comprising a polynucleotide according to claim 100.

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107. (New) A method for making a Robo polypeptide, comprising the steps of: incubating a host cell or cellular extract containing a polynucleotide according to claim 100 under conditions whereby the polypeptide is expressed and recovering the polypeptide.

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108. (New) An isolated polynucleotide comprising a sequence selected from the group consisting of nucleotides 134-501, 502-776, 777-1049, 1051-1350, 1351-1636, 1637-1933, 1934-2284, 2285-2589, 2666-2765, 3169-3268, and 3514-3613 of SEQ ID NO:7; or the group consisting of nucleotides 199-228, 777-806, 1051-1080, 1352-1381, 1637-1666, 1934-1963, 2285-2313, 2643-2672, 3172-3200, and 3491-3520 of SEQ ID NO:7; or the group consisting of a reverse complement of a sequence selected from nucleotides 471-500, 751-777, 1021-1050, 1321-1350, 1607-1636, 1902-1931, 2257-2286, 2561-2591, 2761-2790, 3281-3310 and 3601-3630 of SEQ ID NO:7.

109. (New) An isolated polynucleotide according to claim 108, wherein the sequence is selected from the group consisting of nucleotides 134-501, 502-776, 777-1049, 1051-1350, 1351-1636, 1637-1933, 1934-2284, 2285-2589, 2666-2765, 3169-3268, and 3514-3613 of SEQ ID NO:7.

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110. (New) An isolated polynucleotide according to claim 108, wherein the sequence is selected from the group consisting of nucleotides 199-228, 777-806, 1051-1080, 1352-1381, 1637-1666, 1934-1963, 2285-2313, 2643-2672, 3172-3200, and 3491-3520 of SEQ ID NO:7; or the group consisting of a reverse complement of a sequence selected from nucleotides 471-500, 751-777, 1021-1050, 1321-1350, 1607-1636, 1902-1931, 2257-2286, 2561-2591, 2761-2790, 3281-3310 and 3601-3630 of SEQ ID NO:7.

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111. (New) An isolated polynucleotide according to claim 108, comprising SEQ ID NO:7.

112. (New) An isolated polynucleotide comprising a coding strand encoding a polypeptide comprising a sequence selected from the group consisting of residues 5-16, 38-47; 83-94, 112-125, 168-180, 195-209, 222-235; and 241-254 of SEQ ID NO:10.

113. (New) An isolated polynucleotide according to claim 112, wherein the sequence is selected from the group consisting of residues 1-91, 82-185, and 186-282 of SEQ ID NO:10.

114. (New) An isolated polynucleotide according to claim 112, wherein the sequence comprises residues 1-284 of SEQ ID NO:10.

115. (New) An isolated polynucleotide according to claim 112, wherein the sequence comprises SEQ ID NO:10.

116. (New). A cell comprising a polynucleotide according to claim 112.

117. (New) A method for making a Robo polypeptide, comprising the steps of: incubating a host cell or cellular extract containing a polynucleotide according to claim 112 under conditions whereby the polypeptide is expressed and recovering the polypeptide.

118. (New) An isolated polynucleotide comprising a sequence selected from the group